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Monterey, California, Naval Postgraduate School

Computer and Information Services

Bulletin

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Highlights of this issue

. . . include the installation, in mid-February, of the Cray Y-MP/EL supercomputer and the opening of two Learning Resource Centers (LRCs) in the new building, Glasgow Hall. Room 318 houses the HP-UNIX lab and Room 128 the Mac lab. Our quarterly educational offerings include 27 short talks/ demonstrations and another open house in the Visualization lab. Topics range from WordPerfect to e-mail to Cray use.

Informational items include the latest status on the Navy's umbrella ADP contracts, the addition of CD-ROM (Computer Select) to the Center's Library, the range of document processing tools to be available on the Sun SPARC 10's, RACF (security) and anonymous FTP support on the mainframe, and introductions to new staff members.

I N S I D E

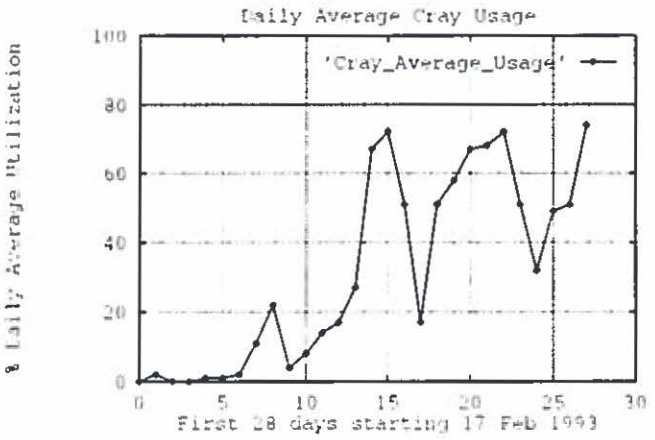
High-Performance Computing

Cray Y-MP Installed

The Cray Y-MP EL 4/1024 (4 processors / 1024 Megabytes of main memory) was accepted by the Computer Center on 17 February 1993. The installation took about a week. With considerable help from the Cray field engineers we successfully integrated it into the existing Visualization Lab administrative domain. This includes sharing of the Network Information Services (NIS) database and the cross-mounting of common directories. Initially, each user's home directory on the Cray will be the same as their home directory on the workstations in the Vis Lab. If a user requires more space, sub-directories will be created on the Cray in the "data" and /u1 partitions. The latter is where source code and other small files should be kept, as we regularly backup this partition. There are three 5GB "data" partitions on the Cray (/d1, /d2, and /d3) that are remotely mounted onto the high-end visualization machines in the Vis Lab. These data partitions are for visualizing the experiments that scientists run on the machine.

The Center's Cray, being the largest and fastest computational resource at NPS, was named after the brightest star in the sky: **sirius**. This is in keeping with the Center's general scheme of naming machines after celestial objects (or anything else to do with astronomy). The machine runs the Unicos operating system (AT&T System V UNIX with Berkeley and Cray extensions) and is accessible from any network connected machine via the telnet, rlogin, or ftp commands. Its full name is sirius.cc.nps.navy.mil, and its IP address is 131.120.53.10.

So far, 31 user accounts have been activated and utilization has been running above 50% (of 100%) for the last few weeks. One reason the machine is gaining real utilization so quickly is that it is binary compatible with other Cray Y-MP computers and that shell scripts and code have been extremely easy to port. (See figure.)



Workshops have been held to show users how to use the system in interactive and batch modes. Here are several spots where announcement will be made of the time and location of the next workshop.

Amdahl mainframe
  news command
NPS UNIX machines
  ccnews news service
    anonymous ftp to alcor.cc
    get wrcc/ccnews
    chmod +x ccnews
    ccnews command
  rn command (if you have network news)
    nps.general newsgroup
Vis Lab SGI machines
  msgs command

Mike McCann

Vis Lab Open House

The Visualization Lab (Vis Lab) of the W.R. Church Computer Center is holding an open house on Monday afternoon 5 April 1993 from 1 to 5 pm. The Lab is located in Ingersoll-148. Several software packages geared toward scientific visualization will be demonstrated on the 8-processor Silicon Graphics 380 VGX. An overview of our video tape recording equipment will also be provided.

Researchers from the academic departments are invited to get accounts on the system and become familiar with the applications available. The Lab has grown; it now includes 4 Silicon Graphics workstations, a Mac Quadra 700, an HP 730 workstation, a DECstation 5000, a Sun SPARC 10, and a Cray Y-MP/EL mini-supercomputer. We also support broadcast quality video recording hardware.

The lab's purpose is to help NPS scientists and engineers visualize large, complex, time-variant data sets that may be produced by model runs or be acquired observationally.

The Lab is currently providing support for public domain packages such as Vis5d, SciAn, netCDF, pbmplus, FERRET, GrADS, SDSC image tools, NCSA tools, and other locally developed code that will mainly help get user's data into the formats that these packages use. We also support NCAR graphics and the NASA FAST software.

In preparation for the open house we are looking for friendly users (i.e., those who are already familiar with the system and won't need much assistance) who have data they wish to visualize. If you have data that would challenge our equipment, then we would like to work with you in using it to demonstrate the visualization packages. Send e-mail to Matthew Koebbe

(phaedrus@alioth.cc.nps.navy.mil)

to make arrangements.

To get a Vis Lab or Cray account, simply fill out an account request form (available outside of In-102A) and return it to the Lab Manager.

Learning Resource Centers

Startup

Three computer classrooms (LRCs) are being set up in Glasgow Hall. Each features a different operat-

ing environment: PC-DOS, MacOS, and UNIX. The Mac and UNIX-based LRCs will be open for scheduled classes this quarter, beginning 29 March. The PC-DOS lab has been delayed by the procurement process. As we go to press we still do not have a delivery date for the systems.

The HP-Unix LRC

Twenty Unix workstations named for Scottish Clans (MacPhee, Colqhoun, Barclay, McAlpine . . .) are installed in Glasgow 318, and ready for use. Each is a high performance HP Model 730 delivering 76.7 MIPS and 23.7 MFLOPS. They offer industry-leading performance and outstanding graphics in a UNIX networking environment. Each is equipped with 64MB RAM, a 1GB SCSI hard drive and a 19" 24-bit color monitor. All Clans deliver extremely fast X Window performance and are ideal for number crunching, advanced graphics, modeling and simulation.

An HP model 750 workstation rules the domain, distributing virtual home environments (VHE) to each user and controlling the Clans' network file service.

Current applications and language processors include

Fortran 77
C++
MATLAB—a matrix and numerical analysis package.
Mathematica—a symbol manipulation package.
TEX—a typesetting language for 'camera-ready' output.
LATEX—an easier-to-use front end for TEX
METAFONT—builds fonts for TEX
DVI—previews TEX's device independent (DVI) files under Windows
DVIPS—converts DVI files to Postscript
XV—view image files (e.g., gif, tif, jpeg, postscript, etc.); and convert between file formats
XMGR—Xwindows- and MOTIF- based easy graphing and plotting routines
TCSH—an extension to C shell providing additional power and features.

Each Clan has a temporary account to allow you to investigate the workstation facilities without any need for private space. We are anxious for you to experience the power of these machines and the beauty of their user interface. Don't hesitate to visit Room 318 or schedule it for teaching a class. This is a new facility and we would like your suggestions on the application needs for your classes or curriculum.

Professor Carlos Borges of the Mathematics Department experienced the trials of establishing and administrating UNIX LANs at the University of California, Davis. We truly appreciate the time he has given us for expert technical assistance and consolation. We are also indebted to him for the many hours he spent compiling applications— LATEX, METAFONT, DVIPS, TCSH and others, and then donating copies to the UNIX LRC in the Scotland Domain.

We also want to thank Prof. Bill Gragg (MA) for volunteering to be the first to try teaching MATLAB in the UNIX LRC while it was still being set up.

Kathy Strutynski

The Mac LRC

The Mac lab in Glasgow 128 is home for 24 Macintosh Quadra 700's, networked through Novell Netware for printer and application sharing. Each Mac is based on a 33MHz 68040 chip, with 8 MB RAM, an 80 MB hard disk, a 16" 256-color monitor, a 1.4 MB floppy disk drive, and of course, a mouse.

The following applications are currently available on these Macs:

Microsoft Word
Microsoft Excel — Spreadsheet
WordPerfect for Mac 2.1
FrameMaker — desktop publishing
Canvas 3.0 — drawing program
SPSS — Statistical Package for Social Sciences
Statview 4.0 — statistical data analysis
Mathematica — symbol manipulation package
Central Point Anti-Virus

In the Mac LRC, the menu system AT EASE completely insulates the user from the file system; accessing a program is as simple as clicking on its icon; no need to hunt for its folder.

Charles Taylor

Spring Quarter Talks

The Computer Center staff will give twenty-seven talks during the Winter Quarter to acquaint users with the various facilities of the VM/CMS timesharing and MVS batch systems available on the mainframe and with the services available in the Center's and the campus microcomputer labs. In addition, Prof. P.A.W. Lewis (OR) will present two talks introducing interactive statistical/graphical software using APL.

General-Interest Talks

Signup is not required for the following four talks.

Introduction to VM/CMS

1110 Wednesday	31 March	Dennis Mar	In-122
1300 Tuesday	6 April	Dennis Mar	In-119

This talk is given twice. It assumes no prior knowledge of the Center's computer, and covers use of the 3278 and related terminals, how to logon and logoff, use of the function keys, online help files, and various general-purpose commands. ***It is strongly recommended for all new users of the Center and covers information which may not be provided in an introductory programming class.*** Be sure to bring a copy of Technical Note VM-01, *User's Guide to VM/CMS at NPS*, generally provided when a new user registers at the One-Stop-Check-in or in In-147. *(Those without computer experience may wish to consider instead the Center's Hands-on Mainframe talk.)*

Introduction to XEDIT

1010 Thursday	1 April	Helen Davis	In-122
1100 Wednesday	7 April	Helen Davis	In-119

This talk is presented twice. It provides elementary information about the XEDIT full screen editor. including methods for creating and changing programs and other files, and use of the PF keys and HELP facility. The talk assumes no familiarity with XEDIT, but prior attendance at *Introduction to VM/CMS* is recommended. (Those without computer experience may wish to consider instead the Center's talk Hands-on-Mainframe).

To attend any of the following talks, you must sign up in the Consulting Office, In-146.

Hands-on Mainframe

0910 Thursday	8 April	Helen Davis	In-364E

This session is designed for those who find the thought of learning to use the mainframe computer a bit intimidating; it combines the information from two separate lectures, *Introduction to VM/CMS* and *Introduction to XEDIT*. This is a single two hour slow pace class in a terminal room where you can work and interact with CMS, FILELIST, RDRLIST, and XEDIT during the session. Class size is limited to 12 due to the number of terminals.

Microcomputer Talks

Introduction to SIMPC

1610 Monday	5 April	Raul Romo	In-260
0910 Thursday	8 April	Raul Romo	In-260

This talk is presented twice. It provides elementary information about the installation and use of SIMPC on your home computer to obtain full screen capability and file transfer capability between your home PC and the Center's mainframe AMDAHL System running VM/ESA/CMS and MVS/ESA. Without SIM3278 (SIMPC) you may dial into the mainframe but in single line only mode (similar to an old teletype machine). The talk discusses hook up procedures, common problems

encountered and their solutions. V6.1 of SIMPC will be distributed on 3½ inch disks. This talk requires no signup.

APL2/AGSS on Microcomputers & Workstations

1510 Wednesday 14 April Prof. P.A.W. Lewis Ro-260

APL2 is a modern APL language; AGSS is a scientific and statistical graphics package written in APL2. The combination of this interactive, array-oriented language and the extensive suite of functions and graphics available in AGSS (A Graphical Statistical System) makes for one of the most effective computing environments currently available. This talk will discuss the use of the package for topics like regression, time series analysis and reliability data analysis in the microcomputer and workstation computing environments.

WordPerfect Thesis

1510 Monday	5 April	Larry Frazier	In-119
1410 Tuesday	27 April	Larry Frazier	In-119
1110 Thursday	27 May	Larry Frazier	In-119

This talk will be given three times; it shows how to produce a thesis in NPS-approved format using NPS Styles. The Style Sheets were developed at NPS to simplify the specific formatting requirements for theses. On-line and printed documentation in the form of a sample thesis will be provided; this and the style sheet can be copied for use with WordPerfect 5.0 and 5.1 off site. ***Those attending this talk should be familiar with WordPerfect. The talk is open to anyone preparing a thesis at NPS, including spouses.***

Other Microcomputer Talks

1530 Wednesday	5 May	Staff	Ro-262
1530 Wednesday	12 May	Staff	Ro-262
1530 Wednesday	19 May	Staff	Ro-262
1530 Wednesday	26 May	Staff	Ro-262
1530 Wednesday	2 June	Staff	Ro-262

The microlab staff will offer weekly talks in the microlab (Ro-262) at 15:30 on Wednesdays. The talk will acquaint users with accessing the Center LAN and provide guidance on how to access Word Perfect and other application software on the LAN. Printing from the LAN will also be covered. *To attend, sign up in the talk book in In-146.* Attendance is restricted to NPS faculty and students only.

UNIX/Workstation Talks

Introduction to the UNIX Operating System

1410 Tuesday	13 April	Larry Frazier	Sp-341
1010 Thursday	6 May	Larry Frazier	Sp-341

Most UNIX systems at NPS provide graphical user interfaces that make it easier to get your work done. However, it can be helpful to have a general understanding of UNIX itself, and there are times when you may need to create, copy, and delete files, create directories, etc., without the benefit of the graphical front end. This talk introduces such elementary topics, and might be all the UNIX needed to get started on a UNIX workstation. There are ten workstations available; the first ten people signing up will have priority at the hands-on practice. Others will be able to watch and learn. Contact Larry Frazier, In-113, x2671, to have this talk given for other groups. Sign up in In-146 is required.

Introduction to the UNIX Editor vi

1410 Tuesday	20 April	Chris Essert	Sp-341
1010 Thursday	13 May	Chris Essert	Sp-341

UNIX systems at NPS usually provide text editors that make it easier to get programs or data entered into the computer. The basic text editor that all UNIX systems have is called 'vi', a full-screen interactive editor. This talk introduces the most common 'vi' commands that allow one to create new text, revise existing text, or append text to an existing file. There are ten workstations available; the first ten people signing up will have priority at the hands-on practice. Others will be able to watch and learn. Contact Chris Essert, In-133, x2672, to have this talk given for other groups. Sign up in In-146 is required.

Cray Y-MP/EL User Workshop

1410 Tuesday 30 March Mike McCann Sp-341

This is a two hour introduction to the hardware and software available on the Cray Y-MP/EL. Users will have an opportunity to actually run programs on the Cray via interactive logins from the Indigo workstations in the Lab. Topics to be covered include: setting up a script to access data, compile & run a program, and dispose of the resulting data; use of the Network Queueing System (NQS) to submit batch jobs and to monitor job progress; the optimizing of code, especially the vectorization of inner loops; using performance analysis tools to identify inefficient code; and using NCAR graphics and NCARview. Attendees should be familiar with UNIX, vi, Fortran, and X-windows. ***Space is limited to about 20 people; reserve a spot*** by sending e-mail to mccann@nps.navy.mil. If you do not already have an account on the Cray, contact Ruth Roy, In-109, ext. 2796.

Visualization Lab Open House

1310 Monday 5 April Mike McCann In-148

This open house will run from 1310 to 1710. No signup is required. Several software packages geared toward scientific visualization will be demonstrated on the 8-processor Silicon Graphics 380 VGX. An overview of our video tape recording equipment will also be provided.

Specialized Mainframe Talks

Introduction to E-Mail

1100 Tuesday 13 April Helen Davis Ro-260

This talk provides basic information about electronic mail services available to mainframe users. General descriptions of BITNET and Internet (the two wide-area networks available to mainframe users), the software tools used on each network, and the format of electronic addresses are presented. A demonstration of sending and receiving e-mail is integral to the presentation.

Introduction to Minitab

1310 Tuesday 13 April Dennis Mar Ro-260

Minitab is an interactive statistical computing system available on VM/CMS. It is designed for moderate-size data sets which can be stored on a CMS A-disk. Minitab is quick and especially useful for exploring data, plotting, and regression analysis. ***Attendees should be familiar with the VM/CMS timesharing system.***

APL2/AGSS on the Mainframe

1510 Monday 12 April Prof. P.A.W. Lewis Ro-260

APL2 is a modern APL language; AGSS is a scientific and statistical graphics package written in APL2. The combination of this interactive, array oriented language and the extensive suite of functions and graphics available in AGSS (A Graphical Statistical System) makes for one of the most effective computing environments currently available. This talk will discuss the use of the package for topics like regression, time series analysis and reliability data analysis in the mainframe computing environment.

Introduction to SAS

1210 Monday 12 April Dennis Mar Ro-260

SAS, the Statistical Analysis System, is a flexible program for handling all phases of data analysis: retrieval, data management, statistical analysis, and report writing. It has excellent features for merging and subsetting data sets. The speaker will describe the required data format and SAS control statements for a simple problem. Both the batch and timesharing modes of execution will be demonstrated.

Introduction to REXX

1010 Wednesday 14 April Dennis Mar In-119

REXX is a CMS command programming language—the successor to EXEC2, and especially useful for creating personal execs and XEDIT macros.

This introductory talk covers REXX input/output, variable manipulation, structured programming features, and embedding CP and CMS commands.

Neil Harvey

UNIX Workstations

Silicon Graphics on Suns

The Silicon Graphics Libraries, pretty much the standard in workstation graphics, are now supported on Sun SPARCstations through a software package *nth Portable GL* from nth Graphics. An evaluation copy will be available for 60 days on the SPARC10 workstation in the Scientific Visualization Lab, In-148. Documentation has been placed next to the SPARC10.

Word Processing on Workstations

"Word processing on workstations!?! That should be done on PC's! They can handle that fine! It's a waste of the power of a workstation!" Has anyone heard that? Any oldtimers (been around for, say, 10 years or so) who remember the same thing being said about mainframes? The fact is, people like to finish their work where they started it.

At any rate, the Computer Center is supporting the following editors and word processing systems on the Sun SPARC 10's (soon to be placed for NPS student and staff use in In-141). This software has been chosen for several reasons, including cost and general familiarity. (Because of its cost, we won't mention the desktop publishing system many people thing of when they think of preparing reports on workstations.)

TEX

TEX has become widely accepted in scholarly publishing; many journals appreciate receiving material in TEX format, because they can avoid the expense of re-keying the report. A major reason for its popularity is that it is available on PC's, workstations and mainframes. As it is particularly widespread on workstations, the Computer Center will support it on the Suns. If you use it, you need no description of it here; if you don't, you will probably prefer working with some of the other systems available.

WordPerfect for Sun

Yes, there's WordPerfect for Suns. Yes, WordPerfect works just fine on PC's. Yes, Sun Wperf is not much more exciting than Wperf for Windows. (It is faster.) But yes, you already know how to use it. And, (of particular interest to those looking at the budget) it costs 1/20 as much as the previously not-mentioned desktop publishing system. Yes. One-twentieth. The 40 licenses of WordPerfect we have bought cost as much as two (2) copies of the popular desktop publishing system. And the files it reads and creates are completely compatible with ten million copies of WordPerfect world wide. (We will offer consultation for those people who (or whose departments) have their own copies of the splendid powerful desktop publishing system.)

emacs

emacs is even cheaper than WordPerfect. It's free. emacs is one of the reasons UNIX lovers love UNIX. It's like vi (the older UNIX editor) only more so. The biggest difference is that it allows two work areas, usually one to run a program, and the other to make fixes and tweaks. This works even over dial-up lines.

So. What does word processing on workstations mean? Well, it won't make it easier to write your thesis or report. But you won't have to go to another machine if you've been working at a UNIX workstation. And if you're a TeXie, this may mean a useful increase in availability and support. Instructions on how to access these systems will be available in In-141; see Larry Frazier, In-113, x2671, with questions concerning these systems (or DOS WordPerfect.)

Larry Frazier

DOS on UNIX Workstations

If word processing on UNIX workstations isn't

enough to curl the hair of users of such machines, how about this?

Mtools is a public domain collection of programs installed on our Sun workstations. These programs allow our UNIX systems to read, write, and manipulate files on MSDOS formatted 720k and 1.44M diskettes. The diskettes are portable copies of your files which can be read on any MSDOS computer. Files can be transferred from other sites to the workstations with FTP, and then Mtools can be used to move them to DOS. See Helen Davis in In-112 or the duty consultant for further details.

Helen Davis

Mainframe News

Job Card Changes Under RACF

As described in more detail in the February Bulletin, to conform to the Department of Defense (DOD) requirement to provide systems that meet various levels of security, the Computer Center has installed IBM's Resource Access Control Facility (RACF) on the MVS (batch) operating system.

Beginning **29 March 1993**, all MVS users MUST add two new parameters to their job cards. Documentation is available in In-146.

If you have any questions regarding RACF, please contact Ruth Roy, In-109, x 2796 or Alyce Austin, In-102B, x 2042.

FTP: Common Now Anonymous

On March 29 the name of account COMMON will be changed to ANONYMOUS. This account was set up to let people transfer files between the mainframe and other hosts. The name is being changed to ANONYMOUS to conform to Internet standards. (Actually, the mainframe can't have an account name longer than 8 characters, but you can type in all nine characters if you want to.) The mainframe isn't able to adhere to another Internet standard, accepting a user's id as a password to this account. Hence, the chosen password is GUEST.

An anonymous FTP session to our mainframe will look like this:

```
> ftp vm1.cc.nps.navy.mil
Connected to vm1.cc.nps.navy.mil.
220-FTPSERVE at VM1.CC.NPS.NAVY.MIL, 10:49:09
    PST WEDNESDAY 03/17/93
220 Connection will close if idle for more
    than 5 minutes.
Name (vm1.cc.nps.navy.mil:name): anonymous
331 Send password please.
Password: guest       (doesn't show on screen)
230 ANONYMOU logged in; working directory =
    ANONYMOU 191
ftp>
```

At this point, you can get and put files between the computers.

Helen Davis

General Information

CD-ROM-based Search at Center

Have you ever been assigned a term project, or started thesis research and wanted to get up to speed quickly on prior work, or get other leads? When writing a Sole-Source Statement, did you ever wish for an easy way to search the computer literature and hardware/software specifications of vendors, profiles on specific computer companies, etc.? Have you ever craved a dictionary that would explain techno-babble, computer terms, acronyms, etc.? If so, then your life has now been made easier by access to a CD-ROM from various stations on the campus including the Computer Center, and Knox Library.

CD-ROM capability has been added to the information resources available in In-162, the Center's Documentation and Reference Library. From this room you can access two CD-ROMs at present:

- Computer Select (published by Ziff Communications) which includes
  - Articles (full-text or abstracts) from most of the major computer periodicals (74,682 documents)
  - Software Product Specifications (43,783)
  - Hardware Product Specifications (32,120)

- Glossary of Computer Terms (14,600)
- User's Guide

This CD is updated monthly, and continuously expands offerings and adds titles. Excellent search and browsing menu options allow easy access to the information.

- Time Almanac 1992, which contains text and graphics from
  - Weekly issues of Time Magazine (1989-92)
  - Profiles of Leading Figures
  - U.S.A. and State Statistics
  - Highlights of Decades, Elections
  - World Organizations & Statistics.

Other computer-oriented CDs are being evaluated. We welcome suggestions for possible acquisition.

Umbrella ADP Contracts

The Center has just received a copy of NAVCOMTELCOM's (Naval Computer and Telecommunications Command) Advisory Bulletin Number 11 (11 Feb 93) which provides the latest information on the policies, status, and plans for Navy Umbrella ADP contracts. The beauty of these contracts is that the competitive contracting has all been done and you can obtain systems with just a purchase order.

Most of you will already be familiar with the umbrella PC contracts such as SMC (EDS), Desktop III (Unisys), Lapheld II (SEARS) and PC-LAN (DEC), but may not be aware of the full range of offerings. The Bulletin provides information on the following contracts of possible interest at NPS:

Contracts Available

Air Force Minicomputer Multi-User (AMMUS)

Air Force Multi-User Contract (SMSCRC) AFCAC 251

Army Joint Service Small Multi-User Computer (SMC)

Automatic Diagnostic Test Equipment (ADTE)

Computer-Aided Design 2nd Acquisition, Marine and Mechanical Design (CAD-2 MMD)

Computer-Aided Design 2nd Acquisition, Printing and Publishing (CAD-2 PP)

Digital Equipment Corporation Defense Data Network VAX Interface (DEC DDN VAX)

Desktop III

DOD Standard Desktop Companion Computer Contract

Lapheld II

Navy Computer-Aided Design/Computer-Aided Manufacturing Hardware Maintenance (Navy CAD/CAM)

Personal Computer Local Area Network (PC-LAN)

Standard Software Requirements Contract I (SSRC-I)

Super Minicomputer Follow-on

Contracts in Progress

Computer-Aided Design 2nd Acquisition, Aeronautical and Electrical Design (CAD-2 AED)

Computer-Aided Design 2nd Acquisition Facilities Engineering Design (CAD-2 FED)

Computer Open Systems (COS)

Database Machine

Integrated Computer-Aided Software Engineering (I-CASE)

Personal Computer Local Area Network Plus (PC-LAN+)

New Technologies for Office and Portable Systems (NTOPS)

A copy of Bulletin #11 is available in In-130. You can get your own copy from

Commander, NCTC Station Jacksonville (N943)
Naval Air Station, Jacksonville, FL 32212-0111

The information is also available from a bulletin board at NCTAMS LANT via an on-line automated system (OASYS). To access it, dial

(data): (804) 445-1121 or DSN 565-1121
(voice): (804) 444-8487 or DSN 564-8487

Modem set up should be

300 to 38000 baud rate;
8 data bits, no parity, 1 stop bit;
full duplex; and
ANSI terminal emulation (recommended, not required)

A series of menu selections are then presented.

Personnel

Lloyd Nolan Elected President of NCFUSE

NCFUSE, the Northern California region FOCUS Users Group has announced the election of **Lloyd Nolan** (code 53, MIS Group) of the Naval Postgraduate School to the office of president. The organization represents more than a hundred companies both private and public who use FOCUS, a fourth generation data base management system.

Mr. Nolan has been involved with data base design and fourth generation languages for almost ten years. He has been a member of the organization since the mid 80's and has delivered papers at both regional and national conferences.

New Employees in the LRC Group

If you have recently encountered someone extremely helpful and informative in the Learning Resource Centers in Ingersoll Hall and Glasgow Hall, you have probably already met **Gregg McWilliams**. He joined us in December and has become very popular with users.

Gregg is a Monterey Peninsula College Coop student who has completed two years of computer science and two years of electronic engineering. His knowledge of hardware, operating system software, and his high energy level have been a great help to the group acquiring and installing the software and hardware in the Learning Resource Centers.

Gregg has also been bitten by the UNIX bug so you will find him spending many hours in the HP UNIX laboratory during coming months. You will also find Gregg scheduled for lab manager shifts in the two PC Learning Resource Centers (LRCs). The recruitment of Gregg is very timely and we are delighted to acquire his support for the LRCs.

Sanford Owings has been employed part time at the Computer Center for four years now, for which we can thank the cooperative spirit of our tenant activity, DMDC.

Sanford started working with us when he was a junior at Carmel High School and soon discovered that software and microcomputers were much to his liking. Thanks to his remarkable powers of recall, he has been able to memorize the MAC addresses (serial numbers) of all the network interface cards in the thirty node PC network, the names and IP addresses of all the work stations in the LRCs, and lots of other information that the rest of us would have to write down.

Sanford is now a sophomore at U.C. Berkeley, majoring in Physics and Computer Science. A Regent Scholar and a National Merit Scholar, he volunteers in an HP Apollo laboratory on that campus.

Drawing on this experience, Sanford played a major role in setting up the HP workstation Learning Resource Center in Glasgow Hall. In about three weeks he installed the workstations and a server providing NIS and VHE services—entirely without the benefit of documentation! (It still hasn't arrived.) We greatly appreciate his efforts; we're pleased to announce that he is now a part-time student employee of NPS in the Learning Resource Center Group.

Kathy Strutynski

ADP Security

Virus Update - The following Computer Security Advisory (#93-23) has been received from NAVCIRT:

Problem: Improper operation of viral software.

Platform: All personal computers using McAfee Associates SCAN and CLEAN-UP version 9.12v100.

Damage: SCAN may incorrectly report "STONED" infections for disks that are infected with the "MICHELANGELO" virus. When "CLEAN C: YMICH" is run to remove the MICHELANGELO virus, the original master boot of the hard disk is restored to the wrong location. This renders the hard disk unusable.

Although there is a procedural fix available, it is recommended that v100 not be used. This problem has been corrected in the subsequent release of the McAfee virus software. Versions which precede v100 do not have this problem.

The McAfee virus software should be available from departmental ADP System Security Officers and Curricular Officers, as well as the ADP Security Officer.

It is also available on the Novell Network, as follows:

CCTR1/ADPSO - Computer Center Novell LAN (ADPSSOs and System Administrators should contact Joe Rogers at ext. 2036 for the password to this account)

This software may also be obtained directly from the McAfee BBS:

McAfee BBS - (408) 988-2871 (2400 bps)

Internet address: MCAFEE.COM

Once connectivity is established, procedures for downloading are as follows:

UserID = **anonymous**
Password = (your network address)

Set default to the pub\antivirus sub-directory

Type **bin** (or **binary**)
Type **get** (and the filename you wish to download)

Files authorized for downloading are:

SCANV***.ZIP - Scans for viruses
CLEAN***.ZIP - Removes detected viruses
VSHLD***.ZIP - Automatically detects infected programs when accessed
NETSC***.ZIP - Scans Novell and Vines networks
WSCAN***.ZIP - For windows applications

(*** varies depending on current version)

Jeff Franklin

Computer Center Mainframe

The Center operates an Amdahl 5995-700A (384 megabytes processor storage, 1 gigabyte expanded storage) loosely coupled with an IBM 4381 Model Q13 (24 megabytes). Interactive computing is provided under VM/XA CMS, batch processing under MVS/ESA with JES3 networking.

Hours of Operation

VM & MVS	24 hrs/day, 7 days/wk	
	656-2713: status recording	
NOTIS	M.-Th.	0700-2300
(Library)	Fr., Sa.	0700-1800
	Sunday	0700-2200
Consulting	Mon-Fri	0900-1130
(In-146 ext 3429)		1315-1545
Dial-up	656-2709 up to 9600 bps	
TAC Access	647-8422	

Terminal Clusters (Open)

In-141	16	3278-2
	5	3472G Graphics/APL
	2	3192-2 Graphics/APL
In-364E	14	3192 Graphics/APL
Ro-222	14	3278-2 (3 APL)
Sp-311	11	3278-2 (4 APL), 2 Tek 618
Bu-100	4	3278-2 (2 APL), 1 Tek 618
Ha-126	3	3278-2 (1 APL), 1 Tek 618
Ha-201C	4	3278-2 (1 APL), 1 Tek 618
Bldg223	11	3178-2 (1 APL)
Knox Library (Basement)	3	3278-2

Printers (Mainframe)

In-140	IBM 3800-3 Laser (215 ppm)
	IBM 3262 Impact (650 lpm)
In-141	Tek 4693D Color Prntr/Plotter
	Shinko CHC-743MV Clr Prntr
In-364	IBM 3268 Impact (APL)
Sp-311	IBM 3203 Impact (1000 lpm)
Ro-222, Ha-201B, Bu-100, Bldg 223	
	IBM 3262 Impact (650 lpm)

Computer Cen. VisLab, In-148

3 Silicon Graphics workstations
1 Silicon Graphics 380 VGX
1 Mac Quadra 700
1 HP 730 workstation
1 DECstation 5000
1 Sun SPARC 10/41
1 Cray Y-MP/EL 4/1024

Computer Cen. Mic.lab, In-151

Hours of Operation

Open: M-Th 0830-1700, Fri 830-1630
(Other access by arrangement)

Cnsultng: M-Fr., 0900-1130, 1315-1630

Micro Lab Equipment

In-151	3 PC/AT compatibles
	8 386 compatibles
	1 Discover Scanner (PC)
	1 HP LaserJet IIIsi
	1 TI Omnilaser printer
	1 Okidata 24-pin printer
	2 Xerox 6085 workstation
	1 Xerox image scanner
In-148	2 Xerox 6085 workstations
	1 Xerox laser printer

Points of Contact

	Room	Ext.
Dean, Computer & Info. Serv. (Acting)		
Toke Jayachandran	He-D139	2392
ADP Security		
Jeff Franklin	He-D139	2469
Knox Library		
Paul Spinks	Kn-105	2341
Computer Science micro & wkstns		
Al Wong	Sp-525A	2009
Operations Research micro labs		
Tom Halwachs	Ro-265	2413
Admin. Science micro labs		
Norm Schneidewind	In-311	2719
ECE micros & workstations		
Bob Limes	Sp-301	3216
Computer Users Council (CUC)		
Mike McCann, Comp. Center		2752
Dennis Mar, Secretary		2341
CUC Subcommittees		
Networking:		
Prof. Norm Schneidewind		2719
High Performance Computing:		
Prof. Russ Elsberry		2373
Graphics: June Favorite		3107

MIS Points of Contact

Applications Development & Support:	
Comptroller & Supply	
Judy Harr	3498
Comptroller Rhoda Lynch	3374
Dean of Instruction, Staff	
Lloyd Nolan	3128
Curricular Offices	
Lloyd Nolan	3128
Network Services	
Codes 00, 01, 03, 04, 07	
Lonna Sherwin	2794
Codes 00x, 02, 03x, 04x	
Lyle Munn	2794
Codes 05, 06, 08	
Lucille Clark	2195
Codes 42, 43 Joe Lopiccolo	2994

Computer Center Points of Contact

	Room	Ext.
Director		
Prof. Douglas Williams	In-129	2572
Administrative Assistant		
Mandy Drury	In-130	2574
Manager, Systems Support		
David F. Norman	In-106	2641
Manager, User Services (Acting)		
Dennis Mar	In-133	2672
Manager, Operations		
Roy Romo	In-132	2004
Manager, Visualization Lab		
Mike McCann	In-102A	2752
Manager, Microcomputing Support		
Kathryn Strutynski	In-111	2696
Editor, Bulletin		
Larry Frazier	In-113	2671
User Registration and Accounting		
Irma Bozardt	In-147	2731
Ruth Roy, Manager	In-109	2796
Programming Cnsultnt.	In-146	3429
Shift Supervisor, Opns	In-140	2721
System Status (recorded msg.)		2713

NPS Computer Club

Club President:	
Helen Thompson	375-2065
MS-DOS:	
Chairman: Robert Jacobs	372-2981
Librarian: Bob Smith	899-9623
Mac:	
Chairman: Andy Melton	373-0695
Librarian: Steve Walker	
OS/2:	
Chairman: Chuck Bane	655-5668
Librarian: Jonathan Hart	656-8280
Amiga:	
Chairman: Josh Rovero	656-2084
Librarian: Dan Zulaica	656-2929

BBS: Closet Gouge I & II: 300/1200/2400 bps; 8-N-1; 655-8785 & 655-8787

Distribution: List 3, plus: 250-B3, 6-B4, 20-B13, 2-B15, B18, 12-F2, 10-F3, 9-F4, 1-F7, 1-F14.